

DECLARATION AND POWER OF ATTORNEY

As the below-named inventor(s), I hereby declare
that:

My residence, post office address and citizenship
are as stated below next to my name.

I believe I am the original, first and sole inventor
(if plural, names are listed below) of the subject matter
which is claimed and for which a patent is sought on the
invention, design or discovery entitled METHOD AND APPARATUS
FOR DETECTING ULTRASONIC SURFACE DISPLACEMENTS USING POST-
COLLECTION OPTICAL AMPLIFICATION, the specification of which
(check one):

 X is attached hereto.
 was filed on as Application
Serial No. and was amended on
 (if applicable).

I hereby state that I have reviewed and understand
the contents of the above-identified specification, including
the claims, as amended by any amendment(s) referred to above;
that I do not know and do not believe that said invention,
design or discovery was ever known or used in the United
States of America before my invention or discovery thereof, or
patented or described in any printed publication in any
country before my invention or discovery thereof, or more than
one year prior to this application, or in public use or on
sale in the United States of America more than one year prior
to this application; that said invention, design or discovery

has not been patented or made the subject of an inventor's certificate issued prior to the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns; and that I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me which is material to the patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application(s) for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

<u>Number</u>	<u>Country</u>	<u>Date Filed</u>	<u>Priority Claimed</u> (Yes) (No)
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I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

<u>60/091,229</u>	<u>6-30-98</u>
(Serial No.)	(Filing Date)

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application(s) in the manner provided by the first paragraph of 35 U.S.C. § 112,

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

<u>Application</u> <u>Serial Number</u>	<u>Date Filed</u>	<u>Status</u>
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None

I hereby appoint:

STEVEN R. SPRINKLE	Registration No. 40,825
STEPHEN E. REITER	Registration No. 31,192
GREGORY P. RAYMER	Registration No. 36,647
DAVID F. KLEINSMITH	Registration No. 40,050
BARRY N. YOUNG	Registration No. 27,774
TIMOTHY W. LOHSE	Registration No. 35,255
STANLEY H. KIM	Registration No. 40,047
DARLENE W. HAYES	Registration No. 33,899
RAMSEY R. STEWART	Registration No. 38,322
WILLIAM N. HULSEY III	Registration No. 33,402
TERRANCE A. MEADOR	Registration No. 30,298
ROBERT A. MCLAUCHLAN	Registration No. P,44,924
ARMANDO PASTRANA, JR.	Registration No. P,44,997

all of the firm of Gray Cary Ware & Freidenrich, as my attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, and to file and prosecute any international patent applications filed thereon before any international authorities and to file any continuation, divisional,

continuation-in-part, reissue or re-examination applications thereon.

Direct all telephone calls to:

Robert A. McLauchlan
Telephone: (512) 457-7029

Send all correspondence to:

Robert A. McLauchlan
GRAY CARY WARE ▲ FREIDENRICH LLP
100 Congress Avenue
Suite 1440
Austin, TX 78701-4042

I hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

ATTORNEY DOCKET
LOCK1340-2

PATENT APPLICATION

5

Full name of sole inventor:	Thomas E. Drake, Jr.
Inventor's signature:	<u>Thomas E. Drake, Jr.</u>
Date:	<u>9-16-99</u>
Residence (City, County, State)	Fort Worth, Tarrant, Texas
Citizenship:	United States of America
Post Office Address:	2418 5 th Street Fort Worth, Texas 76110



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JANUARY 12, 2000

PTAS

GRAY GARY WARE & FREIDENRICH
WILLIAM N. HULSEY III
100 CONGRESS AVENUE
SUITE 1440
AUSTIN, TEXAS 78701



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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/12/1999

REEL/FRAME: 010313/0846
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

DRAKE, THOMAS E., JR.

DOC DATE: 09/16/1999

ASSIGNEE:

LOCKHEED MARTIN CORPORATION
6801 ROCKLEDGE DRIVE
BETHESDA, MARYLAND 20817

SERIAL NUMBER: 09416399

FILING DATE: 10/12/1999

PATENT NUMBER:

ISSUE DATE:

KIMBERLY WHITE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

NYD 10-12-99

10-21-1999



Form PTO-1595

Attorney Docket No.: LOCK1340-

101177642

7ER SHEET

To the Honorable Commissioner for Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Names of Conveying Parties:

Thomas E. Drake, Jr.

Citizenship: United States of America

Additional name(s) of conveying party(ies) attached?

☐ Yes : ☒ No

2. Name and address of receiving Party(ies)

Name: LOCKHEED MARTIN CORPORATION
6801 Rockledge Drive
Bethesda, MD 20817

State of Incorporation: Maryland

Additional name(s) & address(es) attached?

☐ Yes : ☒ No



3. Nature of conveyance:

- ☒ : Assignment ☐ : Merger
☐ : Security Agreement ☐ : Change of name
☐ : Other _____

Execution Date: September 16, 1999

4. Application number(s) or patent number(s):

A. Patent Application No.(s)

B. Patent No.(s)

09/416399

If this document is being filed together with a new application, the execution date of the application is: October 12, 1999

Additional numbers attached? ☐ Yes : ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name : William N. Hulsey III
GRAY CARY WARE & FREIDENRICH
100 Congress Avenue, Suite 1440
Austin, Texas 78701

6. Total number of Applications and patents involved: 1

7. Total fee (37 CFR 3.41)....\$ 40.00

8. ☐ Enclosed

9* Authorized to charge the recordation fee or any underpayment to deposit account No. 50-0456.
A duplicate copy of this page is attached.

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

William N. Hulsey III

William N. Hulsey III
Registration No. 33,402

October 1999
Date

Total number of pages including cover sheet, attachments, and document: 3

10/21/1999 DNGUYEN 00000023 500456 09416399

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103705-991342

ASSIGNMENT

This Assignment is made by Thomas E. Drake, Jr. of Fort Worth, Texas ("Assignor").

WHEREAS, Assignor has invented a new and useful invention entitled METHOD AND APPARATUS FOR DETECTING ULTRASONIC SURFACE DISPLACEMENTS USING POST-COLLECTION OPTICAL AMPLIFICATION, for which an application for United States Letters Patent is made, said application having been executed on the date set forth below; and

WHEREAS, Assignor believes himself to be the original inventor of the invention disclosed and claimed in said application for Letters Patent; and

WHEREAS, the parties desire to have a recordable instrument assigning the entire right, title and interest in and to said invention, said application and any Letters Patent that may be granted for said invention in the United States and throughout the world;

NOW, THEREFORE, in accordance with the obligations to assign the invention and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor sells, assigns, and transfers to **LOCKHEED MARTIN CORPORATION** (hereinafter referred to as "Assignee"), the entire right, title, and interest in and to said invention, said application and any Letters Patent that may be granted for said invention in the United States and throughout the world, including the right to file foreign applications directly in the name of the Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties, or otherwise.

Assignor agrees that, upon request and without further compensation, but at no expense to Assignor, he and/or his legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing Letters Patent in the United States and throughout the world for said invention, and for perfecting, recording, or maintaining the title of Assignee, its successors and assigns, to said invention, said application, and any Letters Patent granted for said invention in the United States and throughout the world.

ATTORNEY DOCKET NO.
LOCK1340-2

PATENT APPLICATION

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Assignor represents and warrants that he has not granted and will not grant to others any rights inconsistent with the rights granted herein.

Assignor authorizes and requests the Assistant Commissioner for Patents of the United States and of all foreign countries to issue any Letters Patent granted for said invention, whether on said application or on any subsequently filed divisional, continuation, continuation-in-part or reissue application, to Assignee, its successors and assigns, as the assignee of the entire interest in said invention.

IN WITNESS WHEREOF, Assignor has executed this Assignment on the date provided below.

Full name of sole inventor:

Thomas E. Drake, Jr.

Inventor's signature:

Thomas E. Drake, Jr.

Date:

9-16-99

Residence (City, County, State)

Fort Worth, Tarrant, Texas

Citizenship:

United States of America

Post Office Address:

2418 5th Street ~~Street~~ AV.
Fort Worth, Texas 76110